Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Journal of Magnetism and Magnetic Materials 287 (2005) 507–512
Journal of magnetism and magnetic materials
www.elsevier.com/locate/jmmm

Author index to volume 287

Abarra, E.N., see Choe, G. 159
Abe, Y., see Doi, M. 381
Abelmann, L., see Onoue, T. 501
Acharya, B.R., see Choe, G. 159
Ahmed, M.Z., P.J. Davey and Y. Kurihara, Constructive inter-track interference (CITI) codes for perpendicular magnetic recording 432
AlHajDarwish, M., see Covington, M. 325
Aoi, H., see Xia, W. 77
Aoi, H., see Hashimoto, M. 123
Aoi, H., see Yatagai, A. 128
Aoi, H., see Miura, K. 133
Aoi, H., see Suzuki, Y. 138
Aoi, H., see Yamakawa, K. 367
Aoi, H., see Yamada, H. 486
Aoyagi, Y., T.K. Taguchi, M. Takagishi and Y. Tanaka, Practical resolution analysis of perpendicular recording 149
Aoyama, T., I. Sato, H. Ito and S. Ishio, B ion implantation effects on $L1_0$ chemical ordering of FePt thin films 209
Ariake, J., T. Chiba, S. Watanabe, N. Honda and K. Ouchi, Magnetic and structural properties of Co–Pt perpendicular recording media with large magnetic anisotropy 229
Ariake, J., see Kiya, T. 118
Ariake, J., see Yamane, H. 153
Ariake, J., see Chiba, T. 167
Ariake, J., see Keitoku, T. 172
Ariake, J., see Sayama, J. 239
Asahi, T., M. Tanaka, J. Sayama, J. Kawaji, S. Matsunuma and T. Osaka, Effect of N_2 additive gas during sputtering on magnetic properties and microstructure of CoB/Pd multilayered media 199
Asahi, T., see Tanaka, M. 188
Asahi, T., see Sayama, J. 239
Asahi, T., see Osaka, T. 292

Bain, J.A., Analysis and optimization of terabit magnetic recording systems limited by down-track and cross-track write field gradients 51
Bekkers, G., see Kao, A.S. 475

Chang, C.-R., see Yang, J.-S. 303
Chen, P.J., see Egelhoff, W.F., Jr. 496
Chiba, T., J. Ariake and N. Honda, Structure and magnetic properties of Co–Pt–Ta_2O_5 film for perpendicular magnetic recording media 167
Chiba, T., see Ariake, J. 229
Choe, G., M. Zheng, E.N. Abarra, B.G. Demczyk, J.N. Zhou, B.R. Acharya and K.E. Johnson, High-performance CoPtCrO perpendicular media: optimizing exchange coupling and anisotropy orientation dispersion 159
Chong, T.-C., see Liu, B. 339
Covington, M., M. AlHajDarwish, Y. Ding, A. Rebei, G.J. Parker, N. Gokemeijer and M.A. Seigler, Spin transfer effects in current perpendicular to the plane spin valves 325
Cruz, J.R., see Tan, W. 397

Das, S. and S. Nakagawa, An approach to estimate the magnetic anisotropy constants in a CoCrPt recording layer with a NiFe soft underlayer 308
Das, S. and S. Nakagawa, Study of magnetization reversal phenomena in CoCrTaPt perpendicular recording thin film media in a tilted magnetic field 314
Davey, P.J., see Ahmed, M.Z. 432
Demczyk, B.G., see Choe, G. 159
Dewi, M., see Piramanayagam, S.N. 271
Ding, Y., see Covington, M. 325
Do, H., see Moser, A. 298
Do, H., see Heidmann, J. 357
Dobin, A.Yu., see Richter, H.J. 41
Doi, M., M. Izumi, Y. Abe, H. Fukuzawa, H.N. Fuke, H. Iwasaki and M. Sahashi, Exchange coupling and NOL magnetism consideration in $Co_{1-x}Fe_x$ specular spin-valves 381

Egelhoff, W.F., Jr., L. Gan, H. Ettedgui, Y. Kadmon, C.J. Powell, P.J. Chen, A.J. Shapiro, R.D. McMichael, J.J. Mallett, T.P. Moffat, M.D. Stiles and E.B. Svedberg, Artifacts that mimic ballistic magnetoresistance 496
Eppler, W.R., see Ozgunes, I. 442
Ettedgui, H., see Egelhoff, W.F., Jr. 496

Fuke, H.N., see Doi, M. 381
Fukuzawa, H., see Doi, M. 381

doi: 10.1016/S0304-8853(05)00027-2

Funabashi, N., E. Miyashita, R. Taguchi, T. Tamaki and S. Nakamura, Read/write characteristics and thermal decay on Tb–Fe–Co/Co–Cr–Pt–B hybrid perpendicular magnetic recording media 255
Funabashi, N., see Miyashita, E. 96

Gan, L., see Egelhoff, W.F., Jr. 496
Gokemeijer, N., see Covington, M. 325
Goodman, A.M., see Greaves, S.J. 66
Greaves, S.J., A.M. Goodman, H. Muraoka and Y. Nakamura, Exchange coupling and grain-size distributions in perpendicular recording media 66
Guarisco, D., Y. Wu, P. Luo, B.E. Higgins and K. Saito, Perpendicular integration challenges 459
Gustafson, R.W., see Kryder, M.H. 449

Hara, M., see Igarashi, M. 72
Hashimoto, A., S. Saito and M. Takahashi, Magnetization reversal mechanism of soft magnetic underlayer pinned by antiferromagnetic layer 287
Hashimoto, M., K. Miura, H. Muraoka, H. Aoi and Y. Nakamura, Influence of magnetic cluster size distribution on SNR and bit error rate in perpendicular magnetic recording 123
Hayashi, N., Y. Miyamoto, K. Machida and T. Tamaki, Influence of underlayers on the soft magnetic properties of Fe–Co–Al–O films 387
Heidmann, J., H. Do, M. Xiao, K. Takano and Y. Ikeda, Experimental study of the head/medium magneto dynamics in perpendicular recording 357
Higgins, B.E., see Guarisco, D. 459
Hirata, K., T. Roppongi and K. Noguchi, A study of pole material properties for pole erasure suppression in perpendicular recording heads 352
Homma, T., see Tanaka, M. 188
Homma, T., see Kawaji, J. 245
Honda, N., T. Kiya and K. Ouchi, Simulation study of nonlinear transition shift in perpendicular magnetic recording media with increased M–H loop slope 113
Honda, N., see Komakine, T. 107
Honda, N., see Kiya, T. 118
Honda, N., see Yamane, H. 153
Honda, N., see Chiba, T. 167
Honda, N., see Keitoku, T. 172
Honda, N., see Ariake, J. 229
Honda, N., see Kurosawa, T. 276
Honda, N., see Ise, K. 376
Honda, S., see Kawai, K. 214
Honda, S., see Nawate, M. 392
Hong, S., see Kao, A.S. 475
Hug, H.J., see Moser, A. 298

Igarashi, M., M. Hara, A. Nakamura and Y. Sugita, Computer simulation of the thermal stability in perpendicular recording media using the thermal acceleration method 72
Ikeda, Y., see Moser, A. 298
Ikeda, Y., see Heidmann, J. 357
Inamura, R., see Shimoda, K. 176
Ise, K., K. Yamakawa, N. Honda, K. Ouchi, H. Muraoka and Y. Nakamura, Cusp-field single-pole head with narrow trailing gap 376
Ise, K., see Shintaku, K. 265
Ise, K., see Yamakawa, K. 367
Ishikawa, C., see Mochizuki, M. 372
Ishio, S., see Saito, H. 102
Ishio, S., see Aoyama, T. 209
Ishio, S., see Li, G. 219
Isozaki, H., Y. Okamoto, H. Osawa, H. Muraoka and Y. Nakamura, Influence of overwrite noise on performance of PRML channels in perpendicular magnetic recording 416
Ito, H., see Aoyama, T. 209
Ito, H., see Li, G. 219
Ito, S., T. Okamoto, S.-H. Kong and S. Nakagawa, Fe–Co–B/[Ni–Fe/Si] soft magnetic underlayer with high anisotropy field along cross-track direction on disk substrate 281
Iwasaki, H., see Doi, M. 381
Iwasaki, S., see Yamane, H. 153
Iwasaki, S.-i., Development of perpendicular magnetic recording conference 1
Iwasaki, S.-i., Principal complementarity between perpendicular and longitudinal magnetic recording 9
Iwasaki, S.-i., see Takahashi, S. 260
Izumi, M., see Doi, M. 381

Johnson, K.E., see Choe, G. 159
Judy, J.H., Advancements in PMR thin-film media 16
Judy, J.H., see Speetzen, N. 181

Kadmon, Y., see Egelhoff, W.F., Jr. 496
Kamiki, T., see Nakagawa, S. 204
Kanai, Y., H. Watanabe, H. Muraoka and Y. Nakamura, Single-pole-type head showing a large recording field suitable for 1 Tbpsi with discrete-track media 362
Kaneko, D., see Shimoda, K. 176
Kao, A.S., H.J. Lee, G. Bekkers and S. Hong, Wide-area track erasure in perpendicular recording 475
Kappenberger, P., see Moser, A. 298
Kawabata, K., see Kawai, K. 214
Kawai, K., S. Honda, R. Sugiki, M. Komatsu and K. Kawabata, High coercive FePt alloys prepared by a new sputtering method 214
Kawaji, J., F. Kitaizumi, H. Oikawa, D. Niwa, T. Homma and T. Osaka, Area selective formation of magnetic nanodot arrays on Si wafer by electroless deposition 245
Kawaji, J., see Tanaka, M. 188
Kawaji, J., see Asahi, T. 199
Kawaji, J., see Osaka, T. 292
Keitoku, T., J. Ariake and N. Honda, Preparation condition of Co–Pt–Cr–SiO_2 films with high coercivity 172

Kikuchi, N., R. Murillo and J.C. Lodder, AHE measurements of very thin films and nanosized dots 320
Kimura, K., see Tanaka, M. 188
Kitaizumi, F., see Kawaji, J. 245
Kiya, T., N. Honda, J. Ariake and K. Ouchi, Effect of parameters of media on perpendicular magnetic recording properties 118
Kiya, T., see Honda, N. 113
Kiya, T., see Shintaku, K. 265
Komakine, T., N. Honda and K. Ouchi, Analysis of overwrite spectrum in perpendicular magnetic recording 107
Komatsu, M., see Kawai, K. 214
Kong, S.-H., see Ito, S. 281
Kryder, M.H. and R.W. Gustafson, High-density perpendicular recording—advances, issues, and extensibility 449
Kurihara, Y., see Ahmed, M.Z. 432
Kurisu, H., see Tanaka, T. 481
Kurosawa, T. and N. Honda, Distributions and dynamics of spike noise in double-layered perpendicular recording media 276
Kusumi, T., K. Yamakawa and K. Ouchi, Head position control on quasi-static read/write tester 421

Lee, H.J., see Kao, A.S. 475
Lee, J. and J. Lee, A PRML with modified branches of a dual MTR code for high-density PMR channels 410
Lee, J., see Lee, J. 410
Lengsfield, B., see Williams, M. 61
Li, G., H. Takahoshi, H. Ito, T. Washiya, H. Saito, S. Ishio, T. Shima and K. Takanashi, Mechanism of magnetization process of island-like $L1_0$ FePt films 219
Lim, B.C., see Piramanayagam, S.N. 271
Liu, B., J. Liu and T.-C. Chong, Slider design for sub-3-nm flying height head–disk systems 339
Liu, J., see Liu, B. 339
Liu, X., see Rahman, T. 250
Lodder, J.C., see Kikuchi, N. 320
Lodder, J.C., see Onoue, T. 501
Luo, P., see Guarisco, D. 459

Machida, K., see Hayashi, N. 387
Maekawa, M., see Nishio, H. 234
Mallett, J.J., see Egelhoff, W.F., Jr. 496
Matsumoto, M., see Rahman, T. 250
Matsunuma, S., see Tanaka, M. 188
Matsunuma, S., see Asahi, T. 199
Matsunuma, S., see Sayama, J. 239
Matsuura, M., see Tanaka, T. 481
McMichael, R.D., see Egelhoff, W.F., Jr. 496
Middleton, B.K., see Ntokas, I.T. 437
Mita, S., A generalized data discrimination scheme using kernel machines in the presence of pattern-dependent noise 426
Miura, K., H. Muraoka, H. Aoi and Y. Nakamura, Correlation between transition parameter and transition jitter using Voronoi cell modeling 133
Miura, K., see Hashimoto, M. 123
Miura, K., see Yatagai, A. 128
Miyamoto, Y., see Hayashi, N. 387
Miyashita, E., N. Funabashi, R. Taguchi, T. Tamaki and S. Nakamura, Dependence of thermal decay on the magnetic cluster size of perpendicular magnetic recording media 96
Miyashita, E., see Funabashi, N. 255
Mizutani, K., see Sayama, J. 239
Mochizuki, M., C. Ishikawa, Y. Okada and K. Nakamoto, Reduction in remanent magnetization using a multi-layered single-pole writer 372
Moffat, T.P., see Egelhoff, W.F., Jr. 496
Morisako, A., see Rahman, T. 250
Moser, A., M. Xiao, P. Kappenberger, K. Takano, W. Weresin, Y. Ikeda, H. Do and H.J. Hug, High-resolution magnetic force microscopy study of high-density transitions in perpendicular recording media 298
Moser, A., see Williams, M. 61
Muraoka, H., see Greaves, S.J. 66
Muraoka, H., see Xia, W. 77
Muraoka, H., see Hashimoto, M. 123
Muraoka, H., see Yatagai, A. 128
Muraoka, H., see Miura, K. 133
Muraoka, H., see Kanai, Y. 362
Muraoka, H., see Yamakawa, K. 367
Muraoka, H., see Ise, K. 376
Muraoka, H., see Nakamura, Y. 405
Muraoka, H., see Isozaki, H. 416
Muraoka, H., see Yamada, H. 486
Murillo, R., see Kikuchi, N. 320

Nakagawa, S. and H. Yoshikawa, Effect of roughness and continuity of Co layers to magnetic properties of Co/Pd multilayers 193
Nakagawa, S. and T. Kamiki, Highly (001) oriented FePt ordered alloy thin films fabricated from Pt(100)/Fe(100) structure on glass disks without seed layers 204
Nakagawa, S., see Ito, S. 281
Nakagawa, S., see Das, S. 308
Nakagawa, S., see Das, S. 314
Nakamoto, K., see Mochizuki, M. 372
Nakamura, A., see Igarashi, M. 72
Nakamura, K., T. Shimakura and H. Suzuki, Magnetic field measurement for analysis of GHz response in SPT head using electron beam tomography 333
Nakamura, S., see Miyashita, E. 96
Nakamura, S., see Funabashi, N. 255
Nakamura, Y., Basic design concepts for perpendicular magnetic recording—from viewpoints of high writing ability and resolution 27
Nakamura, Y., Y. Okamoto, H. Osawa, H. Muraoka and Y. Nakamura, Performance comparison of post-processor for PRML channel in perpendicular magnetic recording 405
Nakamura, Y., see Greaves, S.J. 66

Nakamura, Y., see Xia, W. 77
Nakamura, Y., see Hashimoto, M. 123
Nakamura, Y., see Yatagai, A. 128
Nakamura, Y., see Miura, K. 133
Nakamura, Y., see Kanai, Y. 362
Nakamura, Y., see Yamakawa, K. 367
Nakamura, Y., see Ise, K. 376
Nakamura, Y., see Nakamura, Y. 405
Nakamura, Y., see Isozaki, H. 416
Nakamura, Y., see Yamada, H. 486
Nawate, M., S. Honda and H. Tanaka, Domain wall confinement with thin film edges 392
Nishida, Y., see Suzuki, Y. 138
Nishio, H., Y. Ota, M. Maekawa and H. Yamamoto, Thermal stability of information storage tapes prepared from very fine metal particles 234
Niwa, D., see Kawaji, J. 245
Nix, L., see Williams, M. 61
Noguchi, K., see Hirata, K. 352
Ntokas, I.T., P.W. Nutter and B.K. Middleton, Evaluation of read channel performance for perpendicular patterned media 437
Nutter, P.W., see Ntokas, I.T. 437

Ohsawa, Y., Fabrication and in situ magnetoresistance measurement of a Ni point-contact in planar configuration 491
Ohshima, T., see Shimoda, K. 176
Ohtake, M., see Takahashi, N. 89
Oikawa, H., see Kawaji, J. 245
Okada, Y., see Mochizuki, M. 372
Okamoto, T., see Ito, S. 281
Okamoto, Y., see Nakamura, Y. 405
Okamoto, Y., see Isozaki, H. 416
Onoue, T., M.H. Siekman, L. Abelmann and J.C. Lodder, Heat-assisted magnetic probe recording on a CoNi/Pt multilayered film 501
Osaka, T., T. Asahi, T. Yokoshima and J. Kawaji, Electroless-deposited soft magnetic underlayer on silicon disk substrate for double-layered perpendicular magnetic recording media 292
Osaka, T., see Tanaka, M. 188
Osaka, T., see Asahi, T. 199
Osaka, T., see Sayama, J. 239
Osaka, T., see Kawaji, J. 245
Osawa, H., see Nakamura, Y. 405
Osawa, H., see Isozaki, H. 416
Ota, Y., see Nishio, H. 234
Ouchi, K., see Komakine, T. 107
Ouchi, K., see Honda, N. 113
Ouchi, K., see Kiya, T. 118
Ouchi, K., see Taguchi, K. 144
Ouchi, K., see Yamane, H. 153
Ouchi, K., see Ariake, J. 229
Ouchi, K., see Sayama, J. 239
Ouchi, K., see Takahashi, S. 260
Ouchi, K., see Shintaku, K. 265
Ouchi, K., see Yamakawa, K. 367
Ouchi, K., see Ise, K. 376
Ouchi, K., see Kusumi, T. 421
Ozgunes, I. and W.R. Eppler, Modeling of the nonlinear perpendicular recording readback signal 442

Parker, G.J., see Covington, M. 325
Payne, R., see Williams, M. 61
Perumal, A., see Zhang, Z. 224
Piramanayagam, S.N., H.B. Zhao, M. Dewi and B.C. Lim, Investigations on annealed Ni–P in Al–Mg/Ni–P substrates as soft underlayer for perpendicular recording media 271
Pohkil, T., see Speetzen, N. 181
Powell, C.J., see Egelhoff, W.F., Jr. 496

Qi, X., see Speetzen, N. 181

Rahman, T., X. Liu, A. Morisako and M. Matsumoto, Tbfeco film with W underlayer and overlayer for perpendicular magnetic recording 250
Rebei, A., see Covington, M. 325
Rheem, Y.W., see Saito, H. 102
Richter, H.J. and A.Yu. Dobin, Angle effects at high-density magnetic recording 41
Roppongi, T., see Hirata, K. 352

Sagae, K., see Yamakawa, K. 367
Sahashi, M., see Doi, M. 381
Saito, H., Y.W. Rheem and S. Ishio, Simulation of high-resolution MFM tips for high-density magnetic recording media with low bit aspect ratio 102
Saito, H., see Li, G. 219
Saito, K., see Guarisco, D. 459
Saito, S., see Hashimoto, A. 287
Sato, I., see Aoyama, T. 209
Sayama, J., K. Mizutani, T. Asahi, J. Ariake, K. Ouchi, S. Matsunuma and T. Osaka, Magnetic properties and microstructure of $SmCo_5$ thin film with perpendicular magnetic anisotropy 239
Sayama, J., see Asahi, T. 199
Seigler, M.A., see Covington, M. 325
Shapiro, A.J., see Egelhoff, W.F., Jr. 496
Shima, T., see Li, G. 219
Shimakura, T., see Nakamura, K. 333
Shimatsu, T., see Yamada, H. 486
Shimoda, K., T. Sugimoto, R. Inamura, T. Ohshima, D. Kaneko, S. Takefusa, T. Uzumaki and A. Tanaka, Recording characteristics of CoPtCr–SiO_2 perpendicular media 176
Shinagawa, K., see Takahashi, N. 89
Shintaku, K., K. Ise, T. Kiya, K. Yamakawa and K. Ouchi, Fe–Co–Al–O soft magnetic films for main pole of CF-SPT head and underlayer of perpendicular double-layered media 265
Siekman, M.H., see Onoue, T. 501
Singh, A.K., see Zhang, Z. 224

Speetzen, N., B.J.H. Stadler, E. Yuan, R.H. Victora, X. Qi, J.H. Judy, N. Supper and T. Pohkil, Co/Pd multilayers for perpendicular magnetic recording media 181
Stadler, B.J.H., see Speetzen, N. 181
Stiles, M.D., see Egelhoff, W.F., Jr. 496
Sugiki, R., see Kawai, K. 214
Sugimoto, T., see Shimoda, K. 176
Sugita, Y., see Igarashi, M. 72
Supper, N., see Speetzen, N. 181
Suzuki, A., see Yoshida, K. 83
Suzuki, H., see Nakamura, K. 333
Suzuki, T., see Zhang, Z. 224
Suzuki, Y., Y. Nishida and H. Aoi, Spacing loss factor for the read back from a perpendicular medium with a soft underlayer 138
Svedberg, E.B., see Egelhoff, W.F., Jr. 496

Taguchi, K., S. Takahashi, K. Yamakawa and K. Ouchi, Control of transition shift using DC-bias current 144
Taguchi, R., see Miyashita, E. 96
Taguchi, R., see Funabashi, N. 255
Taguchi, T.K., see Aoyagi, Y. 149
Takagishi, M., see Aoyagi, Y. 149
Takahashi, M., see Hashimoto, A. 287
Takahashi, N., M. Ohtake and K. Shinagawa, 3-D FEM analysis of writing characteristics of CF-SPT head in cross-track and down-track directions 89
Takahashi, S., K. Yamakawa, K. Ouchi and S.-i. Iwasaki, Grooved soft-underlayer for double-layered medium 260
Takahashi, S., see Taguchi, K. 144
Takahoshi, H., see Li, G. 219
Takanashi, K., see Li, G. 219
Takano, K., Magnetization dynamics of perpendicular writers 346
Takano, K., see Moser, A. 298
Takano, K., see Heidmann, J. 357
Takefusa, S., see Shimoda, K. 176
Tamaki, T., see Miyashita, E. 96
Tamaki, T., see Funabashi, N. 255
Tamaki, T., see Hayashi, N. 387
Tan, W. and J.R. Cruz, Evaluation of detection algorithms for perpendicular recording channels with intertrack interference 397
Tanaka, A., see Shimoda, K. 176
Tanaka, H., see Nawate, M. 392
Tanaka, M., J. Kawaji, K. Kimura, T. Asahi, T. Homma, S. Matsunuma and T. Osaka, Microstructure of a Co/Pd multilayered perpendicular recording medium with Pd seeds prepared by electrochemical process 188
Tanaka, M., see Asahi, T. 199
Tanaka, T., S. Yamamoto, H. Kurisu and M. Matsuura, Eddy current effect in soft magnetic backlayer for PMR media 481
Tanaka, Y., Recording performance and system integration of perpendicular magnetic recording 468
Tanaka, Y., see Aoyagi, Y. 149
Tsuchiyama, R., see Yamada, H. 486

Uzumaki, T., see Shimoda, K. 176

Victora, R.H., see Speetzen, N. 181

Washiya, T., see Li, G. 219
Watanabe, H., see Kanai, Y. 362
Watanabe, I., see Yamada, H. 486
Watanabe, S., see Yamane, H. 153
Watanabe, S., see Ariake, J. 229
Weresin, W., see Williams, M. 61
Weresin, W., see Moser, A. 298
Williams, M., W. Weresin, B. Lengsfield, A. Moser, L. Nix and R. Payne, Studies of transition noise in media recorded by heads with trailing shields 61
Wu, Y., see Guarisco, D. 459

Xia, W., T. Yamada, H. Aoi, H. Muraoka and Y. Nakamura, Reduction of track width in perpendicular magnetic recording 77
Xiao, M., see Moser, A. 298
Xiao, M., see Heidmann, J. 357

Yamada, H., T. Shimatsu, I. Watanabe, R. Tsuchiyama, H. Aoi, H. Muraoka and Y. Nakamura, Read/write performance of perpendicular double-layered cylindrical media 486
Yamada, T., see Xia, W. 77
Yamakawa, K., K. Ise, K. Ouchi, K. Sagae, H. Muraoka, H. Aoi and Y. Nakamura, New high field single-pole head design with an ultra-fine coil 367
Yamakawa, K., see Taguchi, K. 144
Yamakawa, K., see Takahashi, S. 260
Yamakawa, K., see Shintaku, K. 265
Yamakawa, K., see Ise, K. 376
Yamakawa, K., see Kusumi, T. 421
Yamamoto, H., see Nishio, H. 234
Yamamoto, S., see Tanaka, T. 481
Yamane, H., S. Watanabe, J. Ariake, N. Honda, K. Ouchi and S. Iwasaki, Effect of oxygen on magnetic properties of Co–Pt–Cr–SiO_2 thin films for perpendicular recording media 153
Yanagihara, H., see Yoshida, K. 83
Yang, J.-S. and C.-R. Chang, Fast switching in single-domain particles with uniaxial quartic anisotropy 303
Yatagai, A., K. Miura, H. Muraoka, H. Aoi and Y. Nakamura, Noise characterization of perpendicular magnetic media using autocorrelation method 128
Yin, J., see Zhang, Z. 224

Yokoshima, T., see Osaka, T. 292
Yoshida, K., A. Suzuki and H. Yanagihara, Calculations of magnetization configurations of SPT head using micromagnetic model 83
Yoshikawa, H., see Nakagawa, S. 193
Yuan, E., see Speetzen, N. 181
Zhang, Z., A.K. Singh, J. Yin, A. Perumal and T. Suzuki, Double-layered perpendicular magnetic recording media of granular-type FePt–MgO films 224
Zhao, H.B., see Piramanayagam, S.N. 271
Zheng, M., see Choe, G. 159
Zhou, J.N., see Choe, G. 159

Available online at www.sciencedirect.com
SCIENCE DIRECT
ELSEVIER
Journal of Magnetism and Magnetic Materials 287 (2005) 513–515
Journal of magnetism and magnetic materials
www.elsevier.com/locate/jmmm

Subject index to volume 287

3-D finite element method 89

Additive N_2 gas 199
Aerodynamics 339
Angle effects 41
Anisotropy constants 308
Anisotropy dispersion 159
Anisotropy field 234
Annealing 271
Anomalous Hall effect 314, 320
Antiferromagnetic layer 176
Antiferromagnetic/ferromagnetic stacking structure 287
Ar pressure 167
Area selective formation 245
Artifacts 496

Backlayer 118
Ballistic 491
Ballistic magnetoresistance 496
Bit curvature 260

c-axis orientation 204
Channel detection 397
Chemical ordering 209
Cluster size distribution 123
Co thin layer 193
Co/Pd multilayered perpendicular recording media 188
Co/Pd multilayers 16, 181, 193
Co/Pt multilayer 320
Co/Sm laminate structure 239
CoB/Pd multilayered film 199
CoCr alloys 16
$CoCrPtSiO_2$ oxides 16
Coercivity 214, 219, 250
Coil 367
Complementarity 9
Complementary features 468
CoNiP alloys 245
Constructive inter-track interference 432
CoPtCrO 159
Co–Pt–Cr–SiO_2 153, 176
Co–Pt–Ta_2O_5 167
Crystallite size 234
Cu seedlayer 239
Current perpendicular to the plane 325
Cusp-field single-pole head 265
Cusp-field single-pole-type head 89
Cylindrical magnetic storage system 486

Data 475
DC-bias current 144
Dibit 442
Differential pulse width 149
Distribution 172
Domain size 250
Domain structure 219, 352
Domain wall confinement 392
Domain-wall displacement 287
Double layer perpendicular media 468
Double-layered media 308
Double-layered medium 83
Double-layered perpendicular recording media 118
Double-layered perpendicular recording medium 27

Easy/hard transition 107
Eddy currents 481
Effective magnetization vector. 314
Electrochemical process 188
Electroless deposition 245, 292
Electron beam tomography 333
Electroplating 271
Erasure 475
Error rate performance 123
Exchange coupling 66, 159, 381
External field 144

Fast switching 303
Fe–Co alloy 387
Fe-Co particle 234
Fe–Co–Al–O 265
Fe–Co–B 281
FEM calculation 77
FePt 209
FePt film 224
FePt-ordered alloy film 204
Ferromagnetic hall effect 308
Field calculation 138
Field gradient 367
Field strength 367
Film edge 392
Finite-Element methods 362
Flying height 339
Frequency response 333

Giant magnetoresistance 325
Glass disks 204
Grain size 172
Groove 260

Hard disk drive 468
Head field 346
Head–disk interface 339
Head-medium magneto-static interaction 27
Heat assist 501
High saturation magnetic flux density 265
High saturation magnetization 387
High-density magnetic recording 421
High-density recording 298
High-speed switching 357
Historical view 1
Hybrid media 255
Hysteresis loop slope 118

Incident angle of sputtered particles 281
InSn seedlayer 181
Integration 468
Interleaved parity-check code 405
Intermediate layer 118, 176
Intertrack interference (ITI) 397, 432
Ion implantation 209
Iterative decoding 426

Jitter 61, 66, 432, 449
Joint-track detection 397

Kernel machines 426

$L1_0$ 209
$L1_0$ FePt 214
$L1_0$ FePt film 219
LLG equation 392

doi:10.1016/S0304-8853(05)00028-4

Longitudinal recording 9
Low bit aspect ratio 102

Magnetic anisotropy field 281
Magnetic cluster 149
Magnetic cluster size 96
Magnetic disk drive 339
Magnetic domain 83
Magnetic field 333
Magnetic field calculations 362
Magnetic field gradient 51
Magnetic force microscopy 102, 219, 298, 501
Magnetic memory 339
Magnetic property 153
Magnetic recording 89, 138
Magnetic recording channels 426
Magnetic recording density analysis 51
Magnetic recording media 102
Magnetic recording-perpendicular 229
Magnetization dynamics 325, 346
Magnetization process 219
Magnetization rotation 314
Magnetization-reversal 229
Magnetoresistance 491
Media 167
Media noise 159
Medium hysteresis model 89
Metal particle tape 9
Metal particulate tape 234
MFM 149
MFM image 255
MFM tips 102
M–H loop slope 113
Micromagnetic simulation 72
Micromagnetics 83, 346, 392
Microstructure 188, 229
Micro-track model 149
MMPC 214
Modulation code 410
MTR coding 410
Multilayer 501
Multi-layered film 372

Nanocontacts 392, 491, 496
Nano-oxide layer 381
New classification of research work 1
NLTS 144
Noise 66
Noise autocorrelation 128
Noise predictive 416
Noise spectrum 107
Nonlinear 442
Nonlinear transition shift 113
Non-servo tracks 421

Overwrite noise 107, 416
Oxygen effect 153

Pattern-dependent noise 426
Patterned media 245, 320, 437
Pd activation process 245
Pd seeds 188
Perpendicular recording heads 459
Perpendicular recording media 459
Perpendicular 61, 442, 475
Perpendicular coercivity 167, 172
Perpendicular double-layered media 486
Perpendicular head 346
Perpendicular magnetic anisotropy 239
Perpendicular magnetic recording 1, 27, 77, 113, 123, 128, 133, 138, 181, 250, 255, 276, 298, 362, 372, 376, 405, 459
Perpendicular magnetic recording media 224
Perpendicular magnetic recording medium 199, 292
Perpendicular magnetic recording thin film media 16
Perpendicular magnetization component 314
Perpendicular media 96, 159
Perpendicular recording 9, 41, 51, 107, 271, 357, 397, 432, 437, 449, 468, 481
Perpendicular recording head 352
Perpendicular recording media 153
Perpendicular recording medium 72
Phase change 214
PMRC 1
Point-contact 491
Pole erasure 352
Pole material properties 352
Post-processing 405
PR channel 416
Precessional switching 303
PRML 410, 437
Probe recording 501
Pt(1 0 0)/Fe(1 0 0) bilayer 204

Quartic anisotropy 303
Quasi-static read/write tester 421

Read channel 437
Read head 138
Read sensitivity 449
Read/write characteristics 255
Recording 475
Recording characteristics 176
Recording codes 432
Recording potential 41
Recording systems 459
Recording write heads 362
Remanent magnetization 372
Return pole 83
Return-yoke 376
Reverse 61
Rotation magnetization 287

Shield 61
Si-doping 181
Signal-induced noise 276
Silicon disk 292
Simulation 66, 96
Simulation study 113
Single pole type perpendicular head 468
Single-domain structure 308
Single-pole head 27, 77, 367, 376
Single-pole writer 372
Single-pole-type head 83
Single-pole-type writer 486
$SmCo_5$ thin film 239
SNR 224
SNR_{OW} 416
Soft magnetic backlayer 481
Soft magnetic layer 276
Soft magnetic underlayer 265, 271, 281, 287, 292, 308
Soft underlayer 376
Soft-magnetic back-layer 27
Soft-underlayer 357
Spatial resolution 102
Specular spin valve 381
Spike noise 276
Spin momentum transfer 325
Spin valve 325
Spin waves 357
SPT head 333
Sputter Ar gas pressure 193
Sputtering 214
Stoner–Wohlfarth astroid 41
SUL 260
Surface morphology 172
Surface roughness 193
Surface-free energy 387

TbFeCo film 250
Thermal acceleration method 72
Thermal decay 96, 255
Thermal stability 72, 224, 234
Thin films-sputtered 229
three-dimensional finite element method 481
Tilted magnetic field 314
Tilted media 303

Time-domain Kerr microscopy 357
Track density 260
Track following 421
Track width 77
Transition jitter 133, 149
Transition percolation 123
Transition shift 144
Transition width 133

Viterbi detector with modified branch metric 410
Volterra 442
Voronoi cells 133

W underlayer 250
Write efficiency 449
Write head materials 387

X-ray photoelectron spectroscopy 153